

# Krishna University College of Engineering & Technology

Sealed Quotations are invited for the equipment to the Physics & Digital Electronics Labs to the KrU College of Engineering & Technology.

## LAB EQUIPMENT

### PHYSICS

S.NO	ITEM
01	Estimate the heat load for office and justify the estimate by measuring the temperature and relative humidity. Represent the data using control graphs in micro soft excel
02	Controlling water temperature by controlling the voltage levels in a water heater from the feedback of temperature sensor
03	Measure the light intensity at various locations and heights and estimate the intensity levels
04	Identify the leakages of cool from the window using the thermal imager and estimate the amount of heat loss
05	Decibels meter
06	Calibration of temperature and humidity sensors using saturated salt solutions
07	FLIR TG167 Spot Thermal Camera 80 x 60 Pixels

### ELECTRONICS

S.NO	ITEM
01	Design a logic circuit for binary to gray and gray to binary conversion
02	a)Realization of AND,OR,NOR,NOT,EX-OR,EX-NOR by using NAND gate b)Realization of AND,OR,NOR,NOT,EX-OR,EX-NOR by using NOR gate
03	SOP and POS expressions using minimum number of gates
04	Synchronous counter design BCD,RING,RIPPLE and JONHNSON counter
05	Asynchronous counter design BCD,RING,RIPPLE and JONHNSON counter
06	Resolve and implement four variable equation in SOP and POS form
07	Counter design for the following sequences in SOP and POS form 0010,0100,0110,1000,1010,1100,1110,1111,0010.

PRINCIPAL (I/C)